

UNITED STATES PATENT AND TRADEMARK OFFICE

United States Fateur and Fragemark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/000,394 11/30/2001 2512 7590 06/06/2005		11/30/2001	Petri Helio	460-010714-US(PAR)	9029
			EXAM	INER	
PERMAN & GREEN 425 POST ROAD FAIRFIELD, CT 06824				SHARMA, SUJATHA R	
				ART UNIT	PAPER NUMBER
	_,	'		2684	
				DATE MAILED: 06/06/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No.	Applicant(s)							
Sujaths Sharma 284 Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the pariod for reply specified store is less than thirty (20) days, a reply be timely filed and reply specified store is less than thirty (20) days, and the cover of the pariod for reply specified store, the maining date of this communication. If the pariod for reply specified store is less than thirty (20) days, a reply with the databody minimum of thirty (20) days with be considered timely. If the pariod for reply specified store, the maining date of this communication. If the pariod for reply specified store, the maining date of this communication. If the pariod for reply specified store, the maining date of this communication, are 3X (to (30 MN) this from the rating date of this communication, and the store of the specified store is less than thirty (20) days, with the considered timely, the specified store is less than thirty (20) days, and the considered timely, and the specified store is less than thirty (20) days, and the considered timely, and the specified store is less than thirty (20) days, and the considered timely, and the specified store is less than thirty (20) days, and the considered timely, and the specified of this communication, and the specified of this communication, are subjected to the same and the specified of this communication, and the specified of this communication, and the specified of this communication, and the specified store is an advantaged to the specified store and the specified store is an advantaged to the specified store and the specified			10/000,394	HELIO ET AL.							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Examilisor of union may be avoilismed the provisions of 3 CFR. 1.136(a). In no event, however, may a reply be timely filed Examilisor of may be a spotfiled above is less than thirty (30) days, as eachy within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, as eachy within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, as eachy within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days as eachy in the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty the months after the mailing date of this communication, even if timely filed, may reduce any search particular timely filed, may reduce any search of the specified of this communication, even if timely filed, may reduce any search of the specified of this communication, even if timely filed, may reduce any search of the specified of this communication is non-final. 3] Since this application is in condition for allowance except for formal matters, prosecution as to the men'ts is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)		Office Action Summary	Examiner	Art Unit							
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Educations of times may be available under the provisions of 37 CFR 1.136(a). In an event, however, may a reply be timely filed between the considered times and the considered times are the considered times. The provisions of 37 CFR 1.136(a) is not event, however, may a reply be timely filed between the considered times. The provision of Claims 4) Status 1) Responsive to communication(s) filed on <i>QT February 2005</i> . 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.6.8.10-17 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are allowed. 8) Claim(s) 3.3 are objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.35(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) Ceptified copies of the priority documents have been received in Application No. 3 Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies			1								
THE MAILING DATE OF THIS COMMUNICATION. Extensions of tem may be available under the provisions of 3 or En 1.15(e). In no event, however, may a reply be timely filed after 5tk (8) MONTHS from the mailing date of this communication. It No period to reply is specified above, the maintain attactory period with pay and leapned to reply and the maintain attactory period with pay and vile page 10% (9) MONTHS from the mailing date of this communication. Fallure to reply within the set of extended period for reply will, by statute, cause the application to become ARANDONEO (3s U.S.C. § 130). Any restrict term adjustment. Set 57 CFR 1.79(b). Status 1) ☑ Responsive to communication(s) filed on 07 February 2005. 2a) ☑ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1-6.8.10-17 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☑ Claim(s) 1-6.8.10-17 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: allowed. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The pecification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: allowed. 10) ☐ The drawing(s) filed on is/are: allowed. 10) ☐ The drawing(s) filed on is/are: allowed. 10) ☐ Certified copies of the priority documents have been received in Application No											
1) Responsive to communication(s) filed on \$\textit{97 February 2005}\$. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under \$Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) \$\frac{1-68, 10-17 and 19}{2}\$ is/are pending in the application. 4a) Of the above claim(s)	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any										
2a) ☐ This action is FINAL. 2b ☐ This action is non-final. 3 ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 ☐ Claim(s) 1-6.8.10-17 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 ☐ Claim(s) is/are allowed. 6 ☐ Claim(s) is/are objected to. 8 ☐ Claim(s) is/are objected to. 8 ☐ Claim(s) is/are objected to. 9 ☐ The specification is objected to by the Examiner. 10 ☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority documents have been received in Application No 3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) and Information Discoaures Statement(s) (PTO-143) or PTO-152). Notice of Informati Patent Application (PTO-152)	Status										
3	1)[Responsive to communication(s) filed on <u>07 F</u>	<u>ebruary 2005</u> .								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)	2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.								
Algorithms of Claims 4) ○ Claim(s) 1-6.8,10-17 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ○ Claim(s) is/are allowed. 6) ○ Claim(s) is/are objected to. 8) ○ Claim(s) is/are objected to. 8) ○ Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) ○ The specification is objected to by the Examiner. 10) ○ The drawing(s) filed on is/are: a) ○ accepted or b) ○ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ○ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ○ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ○ All b) ○ Some * c) ○ None of: 1. ○ Certified copies of the priority documents have been received. 2. ○ Certified copies of the priority documents have been received in Application No 3. ○ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ○ Notice of References Cited (PTO-892) 2) ○ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ○ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	3)□	Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the	merits is						
4)		closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are allowed. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	Dispositi	on of Claims									
5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	4)🛛	☑ Claim(s) <u>1-6,8,10-17 and 19</u> is/are pending in the application.									
Solid Claim(s) 1-6,8,10-17 and 19 is/are rejected. Claim(s) is/are objected to.		· · · · · · · · · · · · · · · · · · ·	wn from consideration.	-							
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· -										
Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Old Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)		· · · · · · · · · · · · · · · · · · ·									
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 20 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-11449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	·	•									
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some colone of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	8)[_]	Claim(s) are subject to restriction and/o	r election requirement.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	Applicati	on Papers									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	9) 🗌 🤈	The specification is objected to by the Examine	:r.								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	10) 🔲	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)		Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	44) 🗆 :										
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) Attachment(s) Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Diplomation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	11)[_]	The path or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	Priority u	ınder 35 U.S.C. § 119									
2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)		a) All b) Some * c) None of:									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)				on No	•						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)											
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)											
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)											
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	.	· .									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)											
			Paper No(s)/Mail Da	te							
				atent Application (PTO	-152)						

Application/Control Number: 10/000,394 Page 2

Art Unit: 2684

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,8,10,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cahill [US 5,287,556] in view of Hammes [US 2003/0156052].

Regarding claims 1,8,10,19 Cahill discloses a radio receiver with a variable bandwidth received channel filter. Cahill further discloses a reference signal comprising an in-phase component and quadrature component is input to the filter (see fig. 1 where I and Q components are in put to the filter 113,115, col. 3, lines 5-19). Cahill further discloses a method wherein atleast one of the following steps is taken:

- changing the frequency of said at least one reference signal (see col. 4, line 55 col. 5, line 25 and fig. 5)
- measuring the strength of the output signal of the filter without converting the signal into another frequency before the measurement, and determining, on the basis of the measurement on the strength of the output signal of the filter/ the location of the pass band of said filter (see col. 4, line 55 col. 5, line 25 and fig. 5)

However, Cahill does not explicitly disclose a complex filter.

Hammes, in the same filed of endeavor, teaches a radio receiver with a complex filter.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to use the complex filter taught by Hammes in the receiver disclosed by

Art Unit: 2684

Cahill in order to process the intermediate signal which is present as a complex signal with inphase and quadrature components.

3. Claims 2-6 and 11-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cahill [US 5,287,556] and Hammes [US 2003/0156052] in view of Ford [EP 475 705 A2].

Regarding claims 2,11 Cahill as treated in claim 1 discloses all the limitations. However he specifically does not disclose a method wherein on the basis of measurements at least one maximum point is searched for the strength of the output signal.

Ford, in the same filed of endeavor, teaches a method wherein on the basis of measurements, at least one maximum point is searched for the strength of the output signal. See col. 7, lines 2-36.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to use the above teachings of Ford in Cahill's invention for proper and accurate alignment/tuning of the filter.

Regarding claims 3,4,12,13 Ford further discloses a method wherein the frequency of said reference signal is changed, until at least one maximum point is found, wherein the frequency of said reference signal at said maximum point indicates the location of the pass band filter. See col. 7, line 2 - col. 8, line 49.

Regarding claims 5,16 Ford further discloses a method wherein the tuning of the filter is performed automatically. See col. 2, lines 6-9.

Art Unit: 2684

Regarding claims 6,17 Ford further discloses a method wherein the tuning of the filter is performed at intervals. See col. 8, line 50 - col. 9, line 2 (where the tuning is performed whenever required and so at some intervals for example depending on the aging of filter).

Regarding claim 14, Ford further discloses a method wherein the means for changing the lime constant of said at least one filter comprise an adjustable capacitor. See col. 1, lines 17-25.

Regarding claim 15, Ford further discloses a method wherein the means for changing the time constant of said at least one filter comprise at least one capacitor, and selection means for connecting said at least one capacitor in a disconnectable manner to said time constant of the filter. See Fig. 4.

Response to Arguments

4. Applicant's arguments with respect to claims 1-6,8,10-17,19 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spencer [US 6,823,292] Tuneable filter

Art Unit: 2684

Nakamura [US 5,758,296] Mobile telephone receiver with adaptively inserted IF filters and an IF filter inserting method

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 571-272-7886. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/000,394

Art Unit: 2684

Information regarding the status of an application may be obtained from the Patent

Page 6

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sujatha Sharma May 17, 2005

> NICK CORSARU BRIMARY EXAMINER